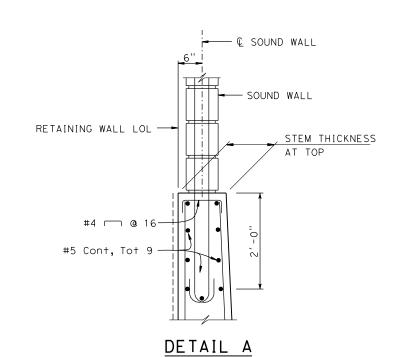
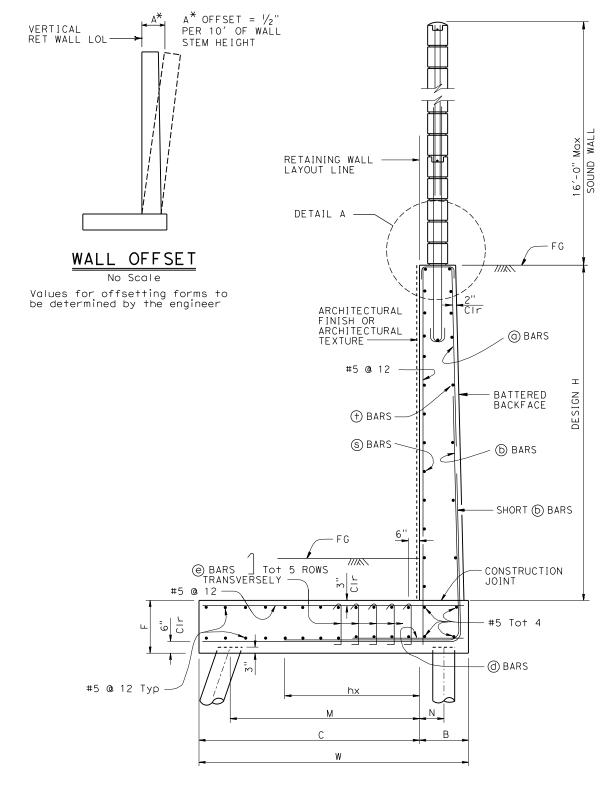


NOTES:

"ha", "hb" above b bars indicate distance from top of footing to upper end of b bars, see table. "S" is b bar spacing, see table.



For sound wall reinforcement, see "SOUND WALL - MASONRY BLOCK ON RETAINING WALL" sheet



PILE FOOTING SECTION No Scale

COUNTY

OF CAL IF

REGISTERED CIVIL ENGINEER DATE PLANS APPROVAL DATE The State of California or its officers or agents CIVIL shall not be responsible for the accuracy or

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DESIGN DATA

Design: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments

33 psf on Sound wall

LS: Varied surcharge on level ground surface

EQE: Mononabe-Okabe Method

> = 0.3 K_h = 0.0

 $Ø = 34^{\circ}$ Soil:

 $\gamma = 120 \text{ pcf}$

Reinforced

f'c = 3600 psi fy = 60,000 psi Concrete:

Load Combinations and Limit States

Service I Q=1.00DC+1.00EV+1.00EH+1.00LS+0.30WS

Service II Q=1.00DC+1.00EV+1.00EH+1.00WS

Strength I Q=aDC+BEV+1.50EH+1.75LS

Strength III Q=aDC+BEV+1.50EH+1.40WS

Strength V Q=aDC+BEV+1.50EH+1.35LS+0.40WS

Extreme I Q=1.00DC+1.00EV+1.00EH+1.00EQD+1.00EQE

Where: Q:

Force Effects
1.25 or 0.90, Which ever Controls Design
1.35 or 1.00, which ever Controls Design a:

Dead Load of Structure Components

EV: Vertical Earth Fill Pressure

LS: Live Load Surcharge
EOE: Seismic Earth Pressure
EOD: Soil and Structure Components Inertia
Soil inertia ignored for stem design
WS: Wind Load on Sound wall

1. All piles are class 90 concrete piles.

2. Pile batter shown are 1:3.

3. Minimum distance between center pile and edge of footing is 1'-6".

4. Lateral resistance of each pile:
30 kip for strength limit states.
40 kip for extreme limit states.

5. Maximum spacing between piles is shown in the table. Reduce to suit the length of footing.

6. Minimum distance between any two piles is 3'-0". Reduce to suit the length of footing.

7. For sound wall and retaining wall architectural finish or texture, see details elsewhere in Project Plans.

8. For details not shown and drainage notes, see

9. Footing cover, 2'-0" minimum.

For sound wall and reinforcement see "SOUND WALL -MASONRY BLOCK ON RETAINING WALL" sheet.

STANDARD DRAWING		DRAWING		STATE OF			DIVIDION AT						•	JSER		
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